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## CLASSIFICATION

CENTRAL INTELLIGENCE AGENCY

# INFORMATION REPORT

# REPORT

CD NO.

25X1  
25X1

COUNTRY Hungary

DATE DISTR. 22 April 1955

SUBJECT Fluorine Chemical Research

**NO. OF PAGES** 1

PLACE  
ACQUIRED

**NO. OF ENCLS.**  
**(LISTED BELOW)**

25X1

DATE OF INFO.

**SUPPLEMENT TO**  
**REPORT NO.**

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At the University of Budapest, fluorine research department, a number of tests are being conducted which concern the combining of fluorine with organic chemicals. These are :

1. Production of medicaments with fluorine content.
2. Production of plant protectives, such as contact insecticides, based upon DDT ( $\text{C}_{10}\text{H}_6\text{Cl}_4$ )  $\text{C}_2\text{HCl}_3$  ( $\text{C}_6\text{H}_4\text{Cl}$ ) (Dichlorodiphenyl-trichloromethane) which contain fluorine  $\text{F}(\text{C}_6\text{H}_4)_2\text{CHCl}_3$  (difluoro-diphenyl-trichloroethane, DFDT).  
The halogen atom of the trichloromethane group was gradually replaced by fluorine and the compound was tried on various insects. The result was round generally good, but too poisonous for some useful animals and plants.
3. A method was found for the preparation of the aforementioned compounds of fluorine with organic chemicals. An aryl chloride or bromide is mixed (UV-Bestrahlung) with NaF (sodium fluoride) or other alkali fluoride compounds. The halogen atom is replaced by fluorine in the benzene ring, as in Formelierung, where  $\text{H}_2\text{F}_2$  or alkali fluoride may be used in place of  $\text{HCl}$  if the Houben-Hensch method of the Gattermann synthesis is applied. Here again the UV-Bestrahlung is a decisive factor for a successful reaction.
4. Further research was made into the effectiveness of the new synthetic compounds of fluorine and with organic chemicals with regard to the therapeutic treatment of cancer. Up to date, the biological tests appear to have doubtful results.

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